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Re-evaluation Note REV2018-15

Re-evaluation Project Plan for Cymoxanil

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Background

In Canada, cymoxanil is under re-evaluation by Health Canada's Pest Management Regulatory Agency (PMRA). The PMRA re-evaluates registered pesticides to determine whether the use of these products continues to be acceptable in terms of value, human health and the environment according to current standards.

Cymoxanil is a cyanoacetamide-oxime fungicide that is registered to control early and late blight on potatoes and tomatoes as well as control of diseases in caneberries (blackberry, raspberry, and loganberry). Cymoxanil is applied by air and ground equipment. As of 22 August 2018, there are two technical grade active ingredient products and two end-use products containing cymoxanil registered in Canada. All end-use products are formulated as dry flowable powders.

Under the authority of section 16 of the *Pest Control Products Act*, all registrants of cymoxanil were notified of the initiation of the re-evaluation of cymoxanil. Following this, the registrants of technical grade active ingredient cymoxanil in Canada indicated support of all uses included on the labels of end-use products in Canada.

The re-evaluation project plan below outlines the timeline, the anticipated areas of focus for the risk assessments, and the data requirements for the re-evaluation of cymoxanil.

Re-evaluation Project Plan

Anticipated Re-evaluation Timeline

The re-evaluation of cymoxanil is defined as a Category 1 as described in Regulatory Directive DIR2016-04, *Management of Pesticides Re-evaluation Policy*. For this re-evaluation, 980 calendar days are required between re-evaluation initiation and publication of the proposed decision. Currently, a proposed re-evaluation decision for cymoxanil is anticipated to be published for consultation by November 2019. The re-evaluation timeline may be updated if, during the risk assessment, the PMRA identifies additional areas of focus that should be considered.

Human Health Risk Assessment

Existing assessments with minor updates are considered to be adequate to support the re-evaluation of cymoxanil for the other aspects of human health assessment.

Environmental Risk Assessment

New assessments will be conducted for environmental fate, water modelling and environmental exposure.

Value

The value of cymoxanil will be considered. The viability of alternatives will be examined for certain uses if risks of concern requiring mitigation are identified.

Data Requirements

The PMRA has identified the need for the technical registrants to provide data for cymoxanil related to environmental fate and exposure. Available data have been submitted to the PMRA. A summary of the data call-in is found in the PMRA's Public Registry. For a list of data categories that have been required, see Appendix I. In addition, information regarding the registered use pattern has been requested from the registrants, to inform the risk assessments.

Additional Information

PMRA documents can be found in the Pesticides section of Canada.ca. PMRA documents are also available through the Pest Management Information Service:

Phone:	1-800-267-6315	within Canada, or
	1-613-736-3799	outside Canada (long distance charges apply)
Fax:	1-613-736-3798	
E-mail:	hc.pmra.info-arla.sc@canada.ca	

Appendix I Data Required Under Subsection 19(1) of the *Pest Control Products Act* for the Re-evaluation of Cymoxanil

I. Environmental Exposure Data

DACO	Title
8	**Environmental Chemistry and Fate**
8.2.2.3	Analytical Methodology (parent compound and transformation products) – Water
8.2.3.3.2	Phototransformation – Water
8.2.3.4	Biotransformation in Soil
8.2.3.4.2	Biotransformation in Soil – Aerobic Soil 20°–30°C
8.2.3.5.4	Biotransformation in Aquatic Systems – Aerobic Water/Sediment 20°–30°C
8.2.3.5.6	Biotransformation in Aquatic Systems – Anaerobic Sediment/Water 20°–30°C
8.2.4.2	Laboratory Studies of Mobility – Adsorption/Desorption
8.2.4.3	Laboratory Studies of Mobility – Soil Column Leaching
8.6.2	Other Studies/Data/Reports
9	**Environmental Toxicology**
9.2.3.2	Earthworms – Chronic Toxicity
9.2.4.3	Bee Larvae Toxicity
9.2.4.4	Bee Adult Chronic Toxicity
9.2.5	Predators
9.2.6	Parasitoids
9.3.2	Non-Target Freshwater Invertebrates – *Daphnia sp.* Acute
9.3.3	Non-Target Freshwater Invertebrates – *Daphnia sp.* Chronic (Life-Cycle)
9.4.4	Non-Target Marine Invertebrates – Mollusk Shell Deposition
9.4.5	Non-Target Marine Invertebrates – Chronic (Mollusk or Crustacean)
9.5.2.1	Acute Studies – Cold Water Fish (Rainbow Trout)
9.5.2.4	Marine/Estuarine Fish
9.5.3.1	Sublethal and Chronic Studies – Fish, Early Life Cycle Toxicity Test
9.6.2.2	Acute Studies – Oral (LD_{50}) Mallard Duck
9.8.2	Non-Target Plants – Fresh Water Algae
9.8.5	Non-Target Plants – Aquatic Vascular Plants